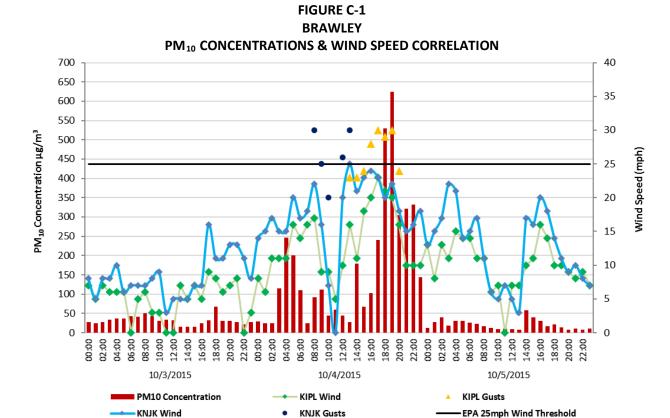
## Appendix C Correlated PM<sub>10</sub> Concentrations and Winds

The following graphs illustrate the direct correlation between wind speeds<sup>1</sup> and PM<sub>10</sub> concentrations at select monitoring sites within the Salton Sea Air Basin on October 4, 2015. Note a variety of instruments measure wind speed at different times during any given hour. Therefore, the following graphs reflect the hour of the wind measurement.

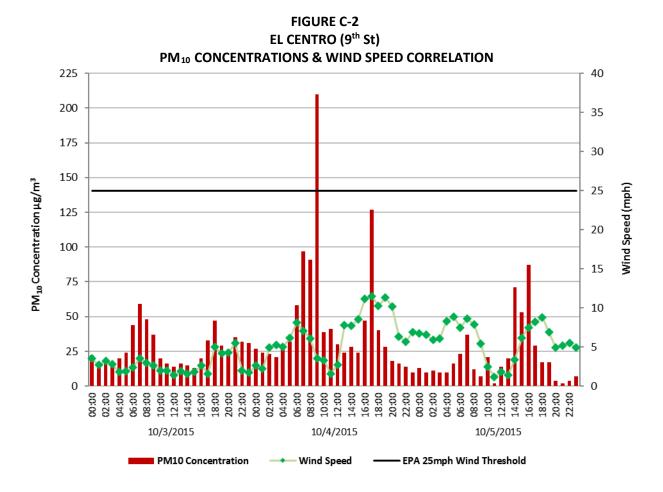
### IMPERIAL COUNTY SELECT SITES (FIGURES C-1 to C-4)



**Fig C-1:** KNJK and KIPL are the two closest meteorological instruments. PM10 concentrations at Brawley show a positive correlation with increased wind speeds. Brawley station does not record wind data. Air quality data from the EPA's AQS data bank

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<sup>&</sup>lt;sup>1</sup> National Weather Service; NOAA's Glossary – Wind Speed: The rate at which air is moving horizontally past a given point. It may be a 2-minute average speed (reported as wind speed) or an instantaneous speed (reported as a peak wind speed, wind gust, or squall); <a href="https://w1.weather.gov/glossary/index.php?letter=w">https://w1.weather.gov/glossary/index.php?letter=w</a>



**Fig C-2:** El Centro was in the southern part of the county where winds were lower and did not record an exceedance. Air quality data from the EPA's AQS data bank

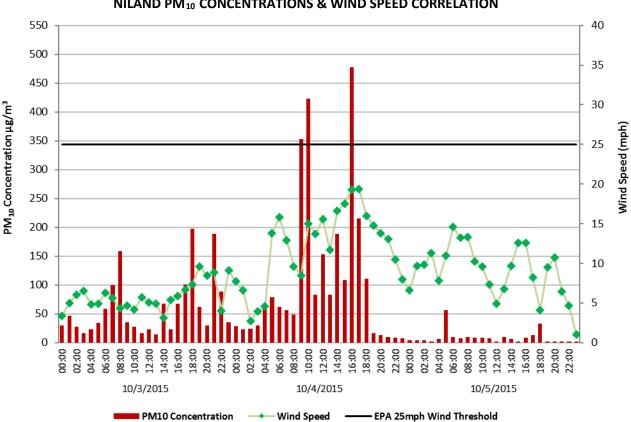
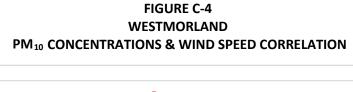
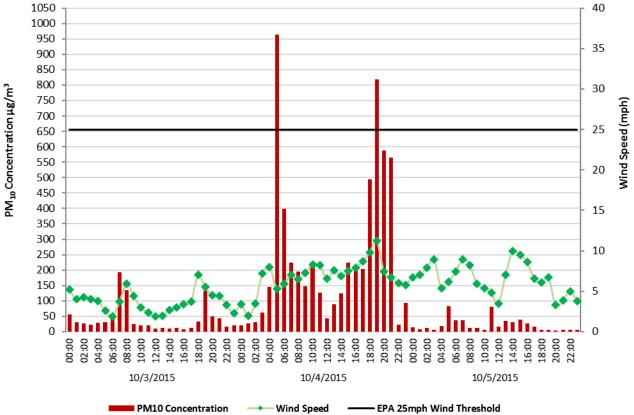


FIGURE C-3 NILAND PM  $_{10}$  CONCENTRATIONS & WIND SPEED CORRELATION

**Fig C-3:** Niland had moderately strong winds but much of the dust was deposited before reaching the station. Air quality data from the EPA's AQS data bank





**Fig C-4:** Winds at Westmorland were considerably lower than at upstream areas, which allowed for transported dust to fall out over the monitor. Air quality data from the EPA's AQS data bank

#### **EASTERN RIVERSIDE COUNTY MONITORING SITES**



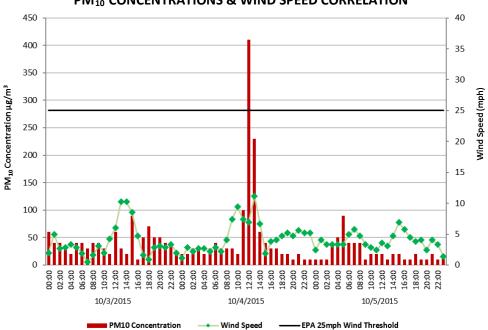


Fig C-5: Wind data from the EPA's AQS data bank

# FIGURE C-6 INDIO (JACKSON ST) PM<sub>10</sub> CONCENTRATIONS & WIND SPEED CORRELATION

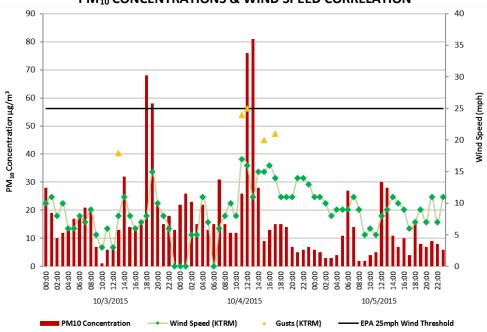


Fig C-6: Wind data from the NCEI's QCLCD system for Jacqueline Cochran Airport

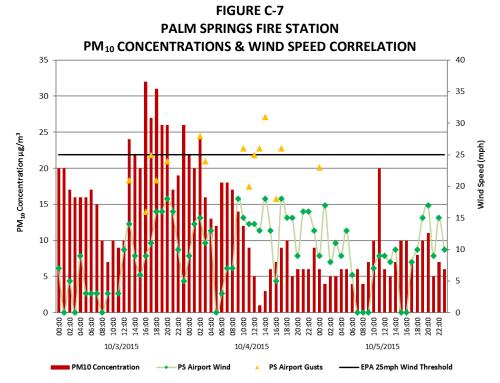
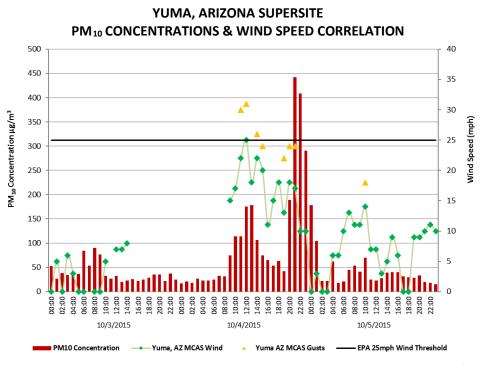


Fig C-7: Wind data from the NCEI's QCLCD system for Palm Springs Airport

#### **SOUTHWESTERN ARIZONA MONITORING SITES**

**FIGURE C-8** 



**Figs C-8:** Yuma Supersite monitoring site is located in Yuma, Arizona. Wind data from the NCEI's QCLCD system